



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,664	10/27/2006	Pekka Linnonmaa	TAMPPAT-21	8661
36528	7590	09/20/2007	EXAMINER	
STIENNON & STIENNON 612 W. MAIN ST., SUITE 201 P.O. BOX 1667 MADISON, WI 53701-1667			NGUYEN, JIMMY T	
			ART UNIT	PAPER NUMBER
			3725	
			MAIL DATE	DELIVERY MODE
			09/20/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/598,664

Applicant(s)

LINNONMAA ET AL.

Examiner

Jimmy T. Nguyen

Art Unit

3725

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --****Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 June 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 31-58 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 31-58 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Priority***

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Information Disclosure Statement***

Receipt is acknowledged of an Information Disclosure Statement (I.D.S.), filed September 07, 2006, which I.D.S. has been placed of record in the file. An initialed, signed and dated copy of the form PTO-1449 is attached to this Office action.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 31-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 31, line 10, there is no antecedent basis for the limitation “the travel direction” in the claim.

Regarding claim 31, line 19, there is no antecedent basis for the limitation “the absorption time” in the claim.

Art Unit: 3725

Regarding claim 31, line 19, there is no antecedent basis for the limitation “the moistening medium” in the claim.

Regarding claim 45, line 15, there is no antecedent basis for the limitation “the travel direction” in the claim.

Regarding claim 45, line 24, there is no antecedent basis for the limitation “the absorption time” in the claim.

Regarding claim 45, line 24, there is no antecedent basis for the limitation “the moistening medium” in the claim.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 31-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mauer (EP 1335066A1) in view of Linnonmaa (WO 01/55504).**

Mauer discloses an apparatus and a method for producing calendered paper (12) by means of an off-line calender (16), in which method paper web (12) manufactured and moistened (by moisturizer 24) in a paper machine (14) and reeled on a machine reel (20) is calendered in a multip calender (16) arranged apart from the paper machine (14). Mauer does not disclose the multip calender arrangement as claimed. However, the patent to Linnonmaa, in a calendering art, teaches a multip calender arrangement, a paper web (W) is moistened with at least one pre-

Art Unit: 3725

moisturizer (20) before the multinip calender (10) and the multinip calender (10) is formed of rolls (14) having a flexible coating and heated rolls (13) placed alternately against each other in such a manner that a nip (N1-N8) is formed between successive rolls (13, 14), the paper web (W) is calendered in the multinip calender (10) whose roll assembly is formed of a first set of rolls (11) and a second set of rolls (12) in a travel direction of the paper web (W), at least one surface of the paper web (W) is moistened with at least one pre-moisturizer (20), whereafter the paper web (W) is passed to the first calender nip (N1) of the first set of rolls (11) and the other surface of the paper web (W) is moistened with at least one intermediate moisturizer (21), whereafter the paper web (W) is guided to the first calender nip (N5) of the second set of rolls (12), and the at least one pre-moisturizer (20) and the at least one intermediate moisturizer (21) are positioned in the travel direction of the paper web (W) on the opposite sides of the web (W) in such a manner that an absorption time of a moistening medium sprayed by at least one pre-moisturizer (20) and intermediate moisturizer (21) on the opposite surfaces of the paper web (W) is substantially the same (page 13, lines 18-25). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the multinip calender of Mauer to be in the type of multinip calender arrangement (i.e. with two sets of rolls having flexible coating rolls and heated rolls, a pre-moisturizer, a intermediate moisturizer), as taught by Linnonmaa, in order to improve a quality values of paper (page 2, line 1).

As to a result of calendering a paper web having roughness of 1.0-1.1  $\mu\text{m}$  and/or gloss of 54-57% or 56-60% is produced. Mauer, as modified by Linnonmaa, discloses the apparatus as claimed as set forth above, and therefore, the result of the paper web produced is obviously similar.

***Conclusion***


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art listed on the attached PTO 892 are cited to show relevant calendaring apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy T. Nguyen whose telephone number is (571) 272-4520. The examiner can normally be reached on Monday-Thursday 7:30am-5:00pm with alternating Friday 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272- 4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JTNguyen  
September 16, 2007

  
JIMMY T. NGUYEN  
PRIMARY EXAMINER